

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) An acoustic contact detecting device, comprising:
 - (a) a substrate having a top surface;
 - (b) an acoustic wave transducer for coupling with a first wave representative of a bulk wave being propagated through said substrate along an axis crossing said top surface;
 - (c) a planar wiring for supplying said acoustic wave transducer with electric power printed on the substrate;
 - (d) a diffractive acoustic wave mode coupler having a mode of converted wave having high energy on said top surface and functioning for coupling a second wave being propagated along an axis parallel to said top surface with said first wave; and
 - (e) a means for detecting a perturbation in energy of said second wave.
2. (currently amended) A coordinate input device of touch type comprising: a propagation medium having a top surface capable of propagating an acoustic wave; a bulk wave generation means for propagating a bulk wave in a crossing direction with respect to said top surface of said propagation medium; a planar wiring for supplying said bulk wave generation means with electric power printed on the propagation medium; an acoustic wave generation means for converting said bulk wave into an acoustic wave and propagating said acoustic wave on the top surface of said propagation medium; and a detecting means for detecting a scatter in the surface of the acoustic wave from said acoustic wave generation means.
3. (currently amended) A device in accordance with claim 1 ~~or 2~~, in which said acoustic wave transducer is composed of a piezoelectric vibrator.
4. (currently amended) A device in accordance with claim 1 ~~or 2~~, in which said wiring is formed by using conductive paste.
5. (currently amended) A device in accordance with ~~either of claim 1, 2 or 4~~, in which said wiring is formed by way of transfer printing.
6. (currently amended) A device in accordance with claim 1 ~~or 2~~, in which said wiring is formed on a back surface of the substrate.

7. (original) A substrate for an acoustic detecting device having a top surface, said substrate further comprising:
- (a) an acoustic wave transducer coupled with a bulk wave having a propagation axis crossing said top surface in said substrate;
 - (b) a wiring for supplying said acoustic wave transducer with electric power, said wiring being printed on a back surface of said substrate;
 - (c) a diffractive acoustic wave mode coupling structure formed in the proximity to said surface for converting acoustic energy of the bulk wave into a wave to be propagated along an axis parallel to said top surface; and
 - (d) a means for detecting the converted acoustic wave energy corresponding to a position of a perturbation event.
8. (no claim was submitted)
9. (no claim was submitted)
10. (currently amended) A touch input device, comprising:
- (a) a substrate having a first planar surface and a second planar surface;
 - (b) an acoustic wave transducer for generating acoustic waves, the acoustic wave transducer coupled to the second planar surface such that generated acoustic waves are transmitted to the first planar surface;
 - (c) planar wiring printed on ~~applied to~~ the second planar surface; and
 - (d) means for connecting the planar wiring to the acoustic wave transducer.
11. (previously presented) A touch input device as recited in Claim 10, wherein the means for connecting the planar wiring to the acoustic wave transducer comprises a first electrode that couples a first portion of a first side of the transducer to a first portion of the planar wiring and a second electrode that couples a second portion of the first side of the transducer to a second portion of the planar wiring wherein the second electrode extends from the first side of the transducer to a second side of the transducer opposed to the first portion of the first side of the transducer.
12. (previously presented) A touch input device as recited in Claim 11, wherein the first portion of the planar wiring is insulated from the second portion of the planar wiring.
13. (currently amended) A touch input device as recited in Claim 10, wherein the planar wiring comprises a composite conductive material.

14. (currently amended) A touch input device as recited in Claim 10, wherein the planar wiring is applied by transfer printing.
15. (previously presented) A touch input device as recited in Claim 10, further comprising a linear array of acoustically reflective elements on the first planar surface and wherein the planar wiring resides on a portion of the second planar surface substantially opposite to the linear array of acoustically reflective elements.
16. (new) A device in accordance with claim 2, in which said acoustic wave transducer is composed of a piezoelectric vibrator.
17. (new) A device in accordance with claim 2, in which said wiring is formed by using conductive paste.
18. (new) A device in accordance with claim 2, in which said wiring is formed by way of transfer printing.
19. (new) A device in accordance with claim 4, in which said wiring is formed by way of transfer printing.
20. (new) A device in accordance with claim 17, in which said wiring is formed by way of transfer printing.
21. (new) A device in accordance with claim 2, in which said wiring is formed on a back surface of the substrate.